

Experiment Checklists

Question Checklist - Topic of Interest

Is your topic interesting enough to motivate you throughout your research and experimentation?	Yes / No
Are you able to find information surrounding your topic?	Yes / No
Is your responding and/or manipulated variable measurable? For example, can you count it, weigh it, time it, or does it have two states such as on or off, used or not used?	Yes / No
Are you able to control other factors that may affect your results?	Yes / No
Is your experiment ethical and safe to conduct?	Yes / No
Are you able to find and/or purchase the materials for your experiment?	Yes / No
Are you able to repeat your experiment at least twice?	Yes / No

Question Checklist – Materials

Are all the necessary materials listed?	Yes / No
Are all the materials described in sufficient detail?	Yes / No

Question Checklist – Procedure

Have you described the experimental and control groups and determined an appropriate number of participants?	Yes / No
Have you detailed, in a step-by-step fashion, the procedure to be followed?	Yes / No
Have you determined how you will change the manipulated variable?	Yes / No
Have you described how you will measure the change in the responding variable?	Yes / No
Have you described the controlled variables in either the procedure or the materials section?	Yes / No
Have you specified how many trials you will conduct, and will that number be sufficient to provide reliable data?	Yes / No
Can another person replicate your experiment based on the procedure you have outlined?	Yes / No

Question Checklist – Conclusion

Did you summarize your results?	Yes / No
Have you stated whether your hypothesis was either confirmed or disproved by the results?	Yes / No